Chapter 1

Perceptron

In order to simplify the Neural Networks' introduction, we are going to describe first what Perceptrons are.

The perceptron algorithm for halfspaces. [1]

First, basic definitions:

The class of affine function L_d is the defined as follows:

$$L_d = \{h_{w,d} : w \in \mathbb{R}^d, b \in \mathbb{R}\}$$

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[1] A half-space is either of the two parts into which a hyperplane divides a affine space.